

Docket No. 58-0111-0601 – Ground Water Quality Rule**Negotiated Rule – Draft #2****Shaded text reflects revisions made based on discussions held on April 19, 2006****200. GROUND WATER QUALITY STANDARDS.**

The following numerical and narrative standards apply to all ground water of the state and shall not be exceeded unless otherwise allowed in this rule. (3-20-97)

01. Numerical Ground Water Quality Standards.

(3-20-97)

a. The Primary Constituent Standards are based on protection of human health and are identified in Table II.

Table II - Primary Constituent Standards		
Chemical Service Number	Abstract Constituent	Standard (mg/l unless otherwise specified)
7440-36-0	Antimony	0.006
7440-38-2	Arsenic	0.05
1332-21-4	Asbestos	7 million fibers/l longer than 10 um
7440-39-3	Barium	2
7440-41-7	Beryllium	0.004
7440-43-9	Cadmium	0.005
7440-47-3	Chromium	0.1
7440-50-8	Copper	1.3
57-12-5	Cyanide	0.2
16984-48-8	Fluoride	4
7439-92-1	Lead	0.015
7439-97-6	Mercury	0.002
*	Nitrate (as N)	10
*	Nitrite (as N)	1
*	Nitrate and Nitrite (both as N)	10
7782-49-2	Selenium	0.05
7440-28-0	Thallium	0.002
15972-60-8	Alachlor	0.002
1912-24-9	Atrazine	0.003
71-43-2	Benzene	0.005
50-32-8	Benzo(a)pyrene (PAH)	0.0002
75-27-4	Bromodichloromethane (THM)	0.1
75-25-2	Bromoform (THM)	0.1
1563-66-2	Carbofuran	0.04
56-23-5	Carbon Tetrachloride	0.005
57-74-9	Chlordane	0.002
124-48-1	Chlorodibromomethane (THM)	0.1
67-66-3	Chloroform(THM)	0.002
94-75-7	2,4-D	0.07
75-99-0	Dalapon	0.2
103-23-1	Di(2-ethylhexyl) adipate	0.4
96-12-8	Dibromochloropropane	0.0002
541-73-1	Dichlorobenzene m-	0.6
95-50-1	Dichlorobenzene o-	0.6
106-46-7	1,4(para)-Dichlorobenzene or Dichlorobenzene p-	0.075
107-06-2	1,2-Dichloroethane	0.005
75-35-4	1,1-Dichloroethylene	0.007
156-59-2	cis-1, 2-Dichloroethylene	0.07
156-60-5	trans-1, 2-Dichloroethylene	0.1

75-09-2	Dichloromethane	0.005
78-87-5	1,2-Dichloropropane	0.005
117-81-7	Di(2-ethylhexyl)phthalate	0.006
88-85-7	Dinoseb	0.007
85-00-7	Diquat	0.02
145-73-3	Endothall	0.1
72-20-8	Endrin	0.002
100-41-4	Ethylbenzene	0.7
106-93-4	Ethylene dibromide	0.00005
1071-83-6	Glyphosate	0.7
76-44-8	Heptachlor	0.0004
1024-57-3	Heptachlor epoxide	0.0002
118-74-1	Hexachlorobenzene	0.001
77-47-4	Hexachlorocyclopentadiene	0.05
58-89-9	Lindane	0.0002
72-43-5	Methoxychlor	0.04
108-90-7	Monochlorobenzene	0.1
23135-22-0	Oxamyl (Vydate)	0.2
87-86-5	Pentachlorophenol	0.001
1918-02-1	Picloram	0.5
1336-36-3	Polychlorinated biphenyls (PCBs)	0.0005
122-34-9	Simazine	0.004
100-42-5	Styrene	0.1
1746-01-6	2,3,7,8-TCDD (Dioxin)	3.0 x 10-8
127-18-4	Tetrachloroethylene	0.005
108-88-3	Toluene	1
*	Total Trihalomethanes [the sum of the concentrations of bromodichloromethane, dibromochloromethane, tribromomethane (bromoform), and trichloromethane (chloroform)]	0.1
8001-35-2	Toxaphene	0.003
93-72-1	2,4,5-TP (Silvex)	0.05
120-82-1	1,2,4-Trichlorobenzene	0.07
71-55-6	1,1,1-Trichloroethane	0.2
79-00-5	1,1,2-Trichloroethane	0.005
79-01-6	Trichloroethylene	0.005
75-01-4	Vinyl Chloride	0.002
1330-20-7	Xylenes (total)	10
*	Gross alpha particle activity (including radium -226, but excluding radon and uranium)	15 pCi/l
*	Combined beta/photon emitters	4 millirems/year effective dose equivalent
*	Combined Radium - 226 and radium 228	5 pCi/l
*	Strontium 90	8 pCi/l
*	Tritium	20,000 pCi/l
	Escherichia coliform (E. coli)	Less than 1 using any EPA approved method
	Fecal coliform	Less than 1 using any EPA approved method
*	Total Coliform	1 colony forming unit/100 ml

* No Chemical Abstract Service Number exists for this constituent.

(3-20-97)()

b. The Secondary Constituent Standards are generally based on aesthetic qualities and are identified in Table III.

Table III - Secondary Constituent Standards	
Constituent	Standard (mg/l unless otherwise

	specified)
Aluminum	0.2
Chloride	250
Color	15 Color Units
Foaming Agents	0.5
Iron	0.3
Manganese	0.05
Odor	3.0 Threshold Odor Number
pH	6.5 to 8.5 (no units apply)
Silver	0.1
Sulfate	250
Total Dissolved Solids	500
Zinc	5

(3-20-97)

c. Sample preservation and analytical procedures to determine compliance with the standards identified in Subsection 200.01 shall be in accordance with the following, except that cyanide shall be analyzed as weak acid dissociable cyanide using a method approved by the Department: (5-3-03)

i. Environmental Protection Agency, Code of Federal Regulations, Title 40, Parts 141 and 143, revised as of July 2001; or (5-3-03)

ii. Another method approved by the Department. (3-20-97)

02. Narrative Ground Water Quality Standards. Contaminant concentrations, alone or in combination with other contaminants or properties, shall not cause the ground water to be hazardous, deleterious, carcinogenic, mutagenic, teratogenic, or toxic. Determinations of specific numerical levels when applying this standard shall be based on: (3-20-97)

a. Best scientific information currently available on adverse effects of the contaminant(s); (3-20-97)

b. Protection of a beneficial use; or (3-20-97)

c. Practical quantitation levels for the contaminant(s), if they exceed the levels identified in Subsection 200.02.a. or 200.02.b. (3-20-97)

03. Natural Background Level. If the natural background level of a constituent exceeds the standard in this section, the natural background level shall be used as the standard. (3-20-97)

(Break in Continuity of Sections)

400. GROUND WATER CONTAMINATION.

01. Releases Degrading Ground Water Quality. No person shall cause or allow the release, spilling, leaking, emission, discharge, escape, leaching, or disposal of a contaminant into the environment in a manner that:

(3-20-97)

a. Causes a ground water quality standard to be exceeded; (3-20-97)

b. Injures a beneficial use of ground water; or (3-20-97)

c. Is not in accordance with a permit, consent order or applicable best management practice, best

available method or best practical method. (3-20-97)

02. Prevention Measures. (3-20-97)

a. When a numerical standard is not exceeded, but degradation of ground water quality is detected and deemed significant by the Department, the Department shall take one (1) or more of the following actions: (3-20-97)

i. Require a modification of regulated activities to prevent continued degradation; (3-20-97)

ii. Coordinate with the appropriate agencies and responsible persons to develop and implement prevention measures for activities not regulated by the Department; (3-20-97)

iii. Allow limited degradation of ground water quality for the constituents identified in Subsections 200.01.a. and 200.01.c., if it can be demonstrated that: ~~(3-20-97)~~(____)

(1) Best management practices, best available methods or best practical methods, as appropriate for the aquifer category, are being applied; and (3-20-97)

(2) The degradation is justifiable based on necessary and widespread social and economic considerations; or (3-20-97)

iv. Allow degradation of ground water quality up to the standards in Subsection 200.01.b., if it can be demonstrated that: (3-20-97)

(1) Best management practices are being applied; and (3-20-97)

(2) The degradation will not adversely impact a beneficial use. (3-20-97)

b. The following criteria shall be considered when determining the significance of degradation: (3-20-97)

i. Site specific hydrogeologic conditions; (3-20-97)

ii. Water quality, including seasonal variations; (3-20-97)

iii. Existing and projected future beneficial uses; (3-20-97)

iv. Related public health issues; and (3-20-97)

v. Whether the degradation involves a primary or secondary constituent in Section 200. (3-20-97)

03. Contamination Exceeding A Ground Water Quality Standard. The discovery of any contamination exceeding a ground water standard that poses a threat to existing or projected future beneficial uses of ground water shall require appropriate actions, as determined by the Department, to prevent further contamination. These actions may consist of investigation and evaluation, or enforcement actions if necessary to stop further contamination or clean up existing contamination, as required under the Environmental Protection and Health Act, Section 39-108, Idaho Code. (3-20-97)

04. Agricultural Chemicals. Agricultural chemicals found in intermittently saturated soils within the crop root zone will not be considered ground water contaminants as long as the chemicals remain within the crop root zone, and have been applied in a manner consistent with all appropriate regulatory requirements. (3-20-97)

05. Site-Specific Ground Water Quality Levels. The Department may allow site-specific ground

water quality levels, for any aquifer category, that vary from a standard(s) in Section 200 or Section 300, based on consideration of effects to human health and the environment, for: (3-20-97)

- a. Remediation conducted under the Department's oversight; (3-20-97)
- b. Permits issued by the Department; (3-20-97)
- c. Situations where the site background level varies from the ground water quality standard; or (3-20-97)
- d. Other situations authorized by the Department in writing. (3-20-97)

06. Mineral Extraction. Naturally occurring constituents found in ground water within a specified area surrounding an active mineral extraction area, as determined by the Department, will not be considered contaminants as long as all applicable best management practices, best available methods or best practical methods, as approved by the Department, are applied. (7-1-98)

401. -- 999. (RESERVED).